



245,015

SAVED EMISSIONS
TONS CO2 EQ /YEAR



Oaxaca IV Wind Energy Project

 Mexico

PROJECT-ID: 6216 FZ-ID: 2183

Oaxaca IV Wind Energy Project

Wind farms in Oaxaca reduce the share of fossil power generation

The objective of the project activity is to build a wind farm with an installed capacity of 102 MW. The renewable energy will be fed into the Mexican electricity grid. Without the project activity, the electricity would be generated by the Mexican electricity grid, which mainly depends on the use of fossil fuels. Thus, in the baseline scenario, the Mexican national grid is mainly based on the use of fossil fuels.

The project activity will help to increase the share of renewable energy in the grid and reduce the overall emission rate per kilowatt hour generated. Renewable energy, such as wind power, is essential for minimising the impact of climate change, and Mexico has extremely high levels of renewable energy.

Mexico has extremely high wind resources, especially in the El Istmo de Tehuantepec zone. In 2002, the National Renewable Energy Laboratory (NREL) produced a high-resolution map of wind resources for the state of Oaxaca. NREL's resource mapping revealed a wind potential of 33,000 MW in the Isthmus region of Oaxaca alone, with over 6,000 MW of usable wind resources; however, in 2009, Mexico accounted for only 0.13% of the world's installed capacity (202 MW). Although the development of wind farms improves the country's sustainability, electricity generation in Mexico is mainly based on fossil fuels, as the country has large oil reserves.

[For more information please click here.](#)

Overview of the project data:



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The project contributes to the following sustainability goals:



No poverty:

The project contributes to job creation in the construction, operation and maintenance phases. It also creates additional income for the landowners without affecting the current use of the land. In addition, the project serves to attract foreign capital.



Affordable and clean energy:

In some regions of the country, there is currently no power generation infrastructure; the project will help to improve the current situation and meet the increasing demand for electricity and improve power distribution in more remote areas.



Climate action:

Expanding renewable energies and avoiding the exploitation of natural resources such as coal and natural gas, which would have been used to generate electricity in fossil fuel power plants without the project.